



PATENT
Docket No.: LMPY-11310

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit: 2881

Examiner:

Serial No.: 09/771,013

Filed: January 25, 2001

In re Application of: Klaus Vogler, et al.

For: ENERGY MONITOR FOR MOLECULAR FLUORINE LASER

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Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail, in an envelope addressed to Director of Patents, Washington, D.C. 20231 on 01-29-02. Signed Gerry Ubau
Gerry Ubau

INFORMATION DISCLOSURE STATEMENT

Director of Patents
Washington, D.C. 20231

Dear Sir:

Each item of information listed in the attached FORM PTO-1449, for which a copy of each is attached, may be material to the examination of the above-identified application and is, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR §§1.56, 1.97 and 1.98. The Examiner is requested to make these items of official record in this application.

This Information Disclosure Statement under 37 CFR §§1.56, 1.97 and 1.98 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these items constitutes prior art.

I

This statement is filed pursuant to:

- (x) 37 C.F.R. §1.97(b).

This information disclosure statement is filed either (1) within three months of the filing date of the national applications; (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application; or (3) before the mailing date of a first office action on the merits, whichever event occurs last.

Accordingly, this information disclosure statement requires no fee and no certification.

- () 37 C.F.R. §1.97(c).

This information disclosure statement is filed after the period specified in 37 C.F.R. §1.97(b), but before the mailing date of either (1) a final action under 37 C.F.R. §1.113 or (2) a notice of allowance under 37 C.F.R. §1.311.

Accordingly, this information disclosure statement requires either the fee specified in 37 C.F.R. § 1.17 (p) for submission of an information disclosure statement under 37 C.F.R. §1.97(c) (\$240), or a certification according to 37 C.F.R. §1.97(e).

- () 37 C.F.R. §1.97(d).

This information disclosure statement is filed after the period specified in 37 C.F.R. §1.97(c).

Accordingly, this information disclosure statement requires the petition fee specified in 37 C.F.R. §1.17(i) (1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) (\$130), a certification according to 37 C.F.R. §1.97(e), and a petition requesting consideration of the information disclosure statement.

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. §1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record. To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

II

- (X) No fee is due

- () The fee specified in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under 37 C.F.R. §1.97(c) is enclosed (\$240).

- () The petition fee specified in 37 C.F.R. § 1.17(i) (1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) is enclosed (\$130.00).

Please charge any additional required fee or credit any overpayment to our deposit account number 50-0612. An additional copy of this page is enclosed.

III

Pursuant to 37 C.F.R. §1.97(e), I certify:

- (X) No certification is necessary.
- () (1) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement.
- () (2) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c), more than three months prior to the filing of the statement.

Respectfully submitted,
SIERRA PATENT GROUP, LTD.



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Dated: 1-2-02
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Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office			Atty. Docket No. LMPY-11310	Serial No. 09/771,013		
Information Disclosure Statement by Applicant <i>OTB</i> <i>JAN 28 2002</i> (Use several sheets if necessary)			Applicant: Klaus Vogler, et al.			
Filed: January 25, 2001 Group: 2881						
U.S. Patent Documents						
Init.	Document No.	Date	Name	Class	Subclass	Filing Date
	4,009,933	3/1/97	Firester, Arthur Herbert	350	152	5/7/75
	4,240,044	12/16/80	Fahlen, et al.	331	94.5 PE	7/16/79
	4,380,079	4/12/83	Cohn, et al.	372	87	9/12/80
	4,393,505	7/12/83	Fahlen, Theodore S.	372	57	11/3/81
	4,399,540	8/16/83	Bücher, Hermann	372	20	9/22/80
	4,611,270	9/9/86	Klauminzer, et al.	364	183	9/16/83
	4,616,908	10/14/86	King, Michael C.	350	576	7/19/84
	4,674,099	6/16/87	Turner, Robert E.	372	59	5/1/84
	4,686,682	8/11/87	Haruta, et al.	372	87	10/1/85
	4,691,322	9/1/87	Nozue, et al.	372	82	1/22/86
	4,719,637	1/12/88	Cavaioli, et al.	372	59	3/12/86
	4,829,536	5/9/89	Kajiyama, et al.	372	57	6/9/87
	4,856,018	8/8/89	Nozue, et al.	372	98	1/20/87
	4,860,300	8/22/89	Bäumler, et al.	372	57	1/27/89
	4,891,818	1/2/90	Levatter, Jeffrey I.	372	57	3/13/89
	4,905,243	2/27/90	Lokai, et al.	372	32	12/22/88
	4,926,428	5/15/90	Kajiyama, et al.	372	20	8/31/87
	4,953,174	8/28/90	Eldridge, et al.	372	83	10/23/89
	4,975,919	12/4/90	Amada, et al.	372	33	3/18/88
	5,001,721	3/19/91	Ludewig, et al.	372	59	10/13/89
	5,005,181	4/2/91	Yoshioka, et al.	372	59	9/20/89
	5,025,445	6/18/91	Anderson, et al.	372	20	11/22/89
	5,051,558	9/24/91	Sukhman, Yefim P.	219	121.68	3/20/89
	5,081,635	1/14/92	Wakabayashi, et al.	372	57	8/25/88
	5,095,492	3/10/92	Sandstrom, Richard L.	372	102	7/17/90
	5,099,491	3/24/92	Chaffee, Edwin G.	372	59	11/26/90
	5,111,473	5/5/92	Rebhan, et al.	372	59	1/22/91
	5,136,605	8/4/92	Basting, et al.	372	59	3/15/91
	5,140,600	4/18/92	Rebhan, Ulrich	372	25	4/4/91
	5,142,543	08/25/92	Wakabayashi, et al.	372	32	01/27/89
	5,150,370	9/22/92	Furuya, et al.	372	106	12/12/90
	5,221,823	6/22/93	Usui, Akaru	219	121.78	1/17/92
	5,226,050	7/6/93	Burghardt, Berthold	372	20	1/25/91
Examiner			Date Considered			
Examiner: Initial if citation considered, whether or not citation is in conference with MPEP 609; Draw line through citation if not conformance and not considered. Include a copy of this form with the next communication to applicant.						

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. LMPY-11310	Serial No. 09/771,013	
Information Disclosure Statement by Applicant <i>O.P.</i> JAN 29 2002 (Use several sheets if necessary)				Applicant: Klaus Vogler, et al.		
				Filed: January 25, 2001 Group: 2881		
U.S. Patent Documents						
Init.	Document No.	Date	Name	Class	Subclass	Filing Date
	5,243,614	9/7/93	Wakata, et al.	372	29	11/21/91
	5,247,531	9/21/93	Müller-Horsche, Elmar	372	38	3/12/92
	5,247,534	9/21/93	Müller-Horsche, Elmar	372	58	3/17/92
	5,247,535	9/21/93	Müller-Horsche, et al.	372	86	3/12/92
	5,307,364	4/26/94	Turner, Brian A.	372	60	5/24/93
	5,337,330	8/9/94	Larson, Donald G.	372	86	10/9/92
	5,396,514	03/07/95	Voss	372	57	03/01/93
	5,404,366	4/4/95	Wakabayashi, et al.	372	29	2/14/94
	5,405,207	4/11/95	Zubli, Leslie A.	401	110	7/23/93
	5,430,752	7/4/95	Basting, et al.	372	59	6/9/94
	5,440,578	08/08/95	Sandstrom	372	59	07/16/93
	5,463,650	10/31/95	Ito, et al.	372	57	12/28/94
	5,534,034	7/9/96	Caspers, Carl A.	623	32	11/1/93
	5,535,233	7/9/96	Mizoguchi, et al.	372	87	10/4/93
	5,557,629	9/17/96	Mizoguchi, et al.	372	87	8/28/92
	5,559,584	9/24/96	Miyaji, et al.	355	73	1/30/95
	5,559,816	9/24/96	Basting, et al.	372	27	5/30/95
	5,596,596	1/21/97	Wakabayashi, et al.	372	102	12/15/95
	5,598,300	1/28/97	Magnusson, et al.	359	566	6/5/95
	5,652,681	6/29/97	Chen, et al.	359	831	1/11/96
	5,659,419	8/19/97	Lokai, et al.	359	330	6/11/95
	5,659,531	8/19/97	Ono, et al.	369	109	2/23/96
	5,663,973	9/2/97	Stamm, et al.	372	20	6/10/96
	5,684,822	11/4/97	Partlo, William N.	372	95	11/17/94
	5,710,787	1/20/98	Amada, et al.	372	25	9/28/94
	5,729,562	3/17/98	Birx, et al.	372	38	10/31/96
	5,729,565	3/17/98	Meller, et al.	372	87	11/7/96
	5,748,346	5/5/98	David, et al.	359	15	5/12/97
	5,761,236	6/2/98	Kleinschmidt, et al.	372	100	7/18/96
	5,763,855	6/9/98	Shioji, Naruaki	129	121.84	12/14/95
	5,771,258	6/23/98	Morton, et al.	372	57	5/16/97
	5,802,094	9/1/98	Wakabayashi, et al.	372	57	10/10/96
	5,811,753	9/22/98	Weick, et al.	219	121.78	6/19/96
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U.S. Patent Documents						
Init.	Document No.	Date	Name	Class	Subclass	Filing Date
	5,818,865	10/6/98	Watson, et al.	5/16/97	372	5/16/97
	5,835,520	11/10/98	Das, et al.	372	57	4/23/97
	5,852,627	12/22/98	Ershov, Alexander I.	372	108	9/10/97
	5,856,991	1/5/99	Ershov, Alexander I.	372	57	6/4/97
	5,898,725	4/27/99	Fomenkov, et al.	372	102	1/21/97
	5,901,163	5/4/99	Ershov, Alexander I.	372	20	12/8/97
	5,914,974	6/22/99	Partlo, et al.	372	38	2/21/97
	5,917,849	6/29/99	Ershov, Alexander I.	372	102	9/10/97
	5,923,693	7/13/99	Ohmi, et al.	372	57	2/28/97
	5,936,988	8/10/99	Partlo, et al.	372	38	7/18/98
	5,940,421	8/17/99	Partlo, et al.	372	38	12/15/97
	5,946,337	8/31/99	Govorkov, et al.	372	92	4/29/98
	5,949,806	9/7/99	Ness, et al.	372	38	6/19/98
	5,970,082	10/19/99	Ershov	372	102	7/1/97
	5,978,391	11/2/99	Das, et al.	372	20	7/18/97
	5,978,394	11/2/99	Newman, et al.	372	32	10/2/98
	5,978,405	11/2/99	Juhasz, et al.	372	57	3/6/98
	5,978,409	11/2/99	Das, et al.	372	100	9/28/98
	5,982,795	11/9/99	Rothweil, et al.	372	38	12/22/97
	5,982,800	11/9/99	Ishihara, et al.	372	57	10/10/97
	5,991,324	11/23/99	Knowles, et al.	372	57	3/11/98
	5,999,318	12/7/99	Morton, et al.	359	572	6/9/99
	6,005,880	12/21/99	Basting, et al.	372	38	3/21/97
	6,020,723	1/1/00	Desor, et al.	320	166	4/15/97
	6,028,872	2/22/00	Partlo, et al.	372	38	12/15/98
	6,028,880	2/22/00	Carlesi, et al.	372	58	7/2/98
	6,061,382	5/9/00	Govorkov, et al.	372	101	5/4/98
	6,081,542	6/27/00	Scaggs, Michael J.	372	70	6/12/98
	6,084,897	7/4/00	Wakabayashi, et al.	372	38	3/6/97
	6,151,346	11/21/00	Partlo, et al.	372	38	8/9/99
	6,154,470	11/28/00	Basting, et al.	372	19	5/24/99
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JAN 29 2002 PATENT & TRADEMARK OFFICE Information Disclosure Statement by Applicant	Applicant: Klaus Vogler, et al.
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U.S. Patent Documents

Init.	Document No.	Date	Name	Class	Subclass	Filing Date
	6,157,662	12/5/00	Scaggs, et al.	372	60	5/24/99
	6,160,831	12/12/00	Kleinschmidt, et al.	372	57	3/17/99
	6,160,832	12/12/00	Kleinschmidt, et al.	372	57	10/12/99
	6,188,710 B1	2/13/01	Besaucelle, et al.	372	60	7/27/99

Foreign Documents

Translation

Init.	Document No.	Date	Country	Class	Subclass	Yes	No
	0 236 137 A2	3/5/87	EPO	G01J	3/45	X	
	63-86593	4/16/88	Japan	H01S	3/134	X	
	Hei 1-115182	5/8/89	Japan	H01S	3/134	X	
	0 532 751 A1	2/8/91	EPO	H01S	3/038	X	
	0 532 751 B1	2/8/91	EPO	H01S	3/038	X	
	0 459 503 A3	5/31/91	EPO	H01S	3/08	X	
	0 459 503 A2	5/31/91	EPO	H01S	3/08	X	
	Hei 3-166784	7/18/91	Japan	H01S	3/134	X	
	Hei 3-265180	11/26/91	Japan	H01S	3/097	X	
	Hei 4-17380	1/22/92	Japan	H01S	3/097	X	
	295202 80	12/20/95	Germany				X
	EP 0 790 681 A2	1/20/97	EPO	H01S 3	097	X	
	EP 0 867 774 A3	3/27/98	EPO	G03G 7	20	X	
	EP 0 867 774 A2	3/27/98	EPO	G03F 7	20	X	
	DE 298 22 090 U 1	12/10/98	Germany	H 01 S 3	08		X
	WO 99/19952	4/22/99	PCT	H01S 3	22	X	

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

	R.S. Taylor, "Preionization and discharge stability study of long optical pulse duration IV-Preionized XeCl lasers", <u>Appl. Phys.</u> , Volume B 41, 1-24 Number 1 September 1986, pp. 1-24.
	T.Y. Chang, "Improved uniform-field electrode profiles for tea laser and high-voltage applications", November 13, 1972, Volume 44, No. 4, pp. 405-407.
	E.A. Stappaerts, "A novel analytical design method for discharge laser electrode profiles", Volume 40, Number 12, June 15, 1982, pp. 1018-1019.
	Gerard J. Ernst, "Compact uniform field electrode profiles", <u>Optics Communications</u> , Volume 47, Number 1, August 1, 1983, pp. 47-51.
	Gerard J. Ernst, "Uniform-field electrodes with minimum width", <u>Optics Communications</u> , Volume 49, Number 4, March 15, 1984, pp. 275-277.

Examiner	Date Considered
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Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. LMPY-11310	Serial No. 09/771,013
Information Disclosure Statement by Applicant <i>29 JAN 2002</i> (Use several sheets if necessary)		Applicant: Klaus Vogler, et al.	
Filed: January 25, 2001 Group: 2881			
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)			
Marchetti, et al., "A new type of corona-discharge photoionization source for gas lasers", <u>J. Appl. Phys.</u> , 56 (11) December 1, 1984, pp. 3163-3168.			
Ogura, et al., "Output power stabilization of a XeCl excimer laser by HCl gas injection", <u>Proceedings of SPIED: Gas and Metal Vapor Lasers and Applications</u> , January 22-23, 1991, Volume 1412, pp. 123-128.			
Golobic, et al., "Clinical experience with an excimer laser angioplasty system", <u>SPIE: Diagnostic and therapeutic cardiovascular interventions</u> , Volume 1425, January 20-22, 1991, pp. 84-91.			
Ujda, et al., "Analysis of possibility of computer control of the parameters of an excimer laser" <u>Journal of Technical Physics: Results of computerization of the parameters of a XeCl laser</u> , 1991, pp. 399-408.			
Dr. D. Basting, <u>Industrial Excimer Lasers: Fundamentals, Technology and Maintenance</u> , Lambda Physik AG, 1991, pp. 1-97.			
Turner, et al., "Dependence of excimer laser beam properties on laser gas composition", 1992, <u>SPIE Vol. 1835</u> , pp. 158-164.			
Elliott, et al., "Recent advances in an excimer laser source for microlithography", Nov./Dec. 1991, <u>J. Vac. Sci. Technol B9(6)</u> , 3122-3125.			
Taylor, et al., "Pre-preionization of a long optical pulse magnetic-spiker sustainer XeCl laser", <u>Rev. Sci. Instrum.</u> 65(12) December 1994, pp.3621-3627.			
Dirk Basting, Lambda Physik AG, January 23, 1996, "Laserröhre für halogenhaltige gasentladungslaser", 7 pages.			
Borisov, et al., "EFFECTS LIMITING THE AVERAGE POWER OF COMPACT PULSE-PERIODIC KrF LASERS", <u>Quantum Electronics</u> , 1995, Vo. 25 No. 5, pp. 421-245			
Taylor, et al., "Transmission properties of spark preionization radiation in rare-gas halide laser gas mixes", <u>IEEE Journal of Quantum Electronics</u> , No. 12 December 1995, pp. 2195-2207.			
Billion level durable ArF excimer laser with highly stable energy", Wakabayashi, et al., <u>Laser Research Dept., Research Division</u> , Japan, 11 pages.			
Enami, et al., "High spectral purity and high durability kHz KrF excimer laser with advanced RF pre-ionization discharge", <u>SPIE</u> , Vol. 3334, pp. 1031-1040.			
Solt, et al., "PTSI-N-SI SCHOTTKY-BARRIER PHOTODETECTORS WITH STABLE SPECTRAL RESPONSIVITY IN THE 120-250 NM SPECTRAL RANGE", <u>Appl. Phys. Lett.</u> , December 1996, 69(24), pp. 3662-3664.			
Shaw, et al., "Ultraviolet radiometry with synchrotron radiation and cryogenic radiometry", <u>Applied Optics</u> , January 1999, Vol. 38, No. 1, pp. 18-28.			
Shaw, et al., "New ultraviolet radiometry beamline at the synchrotron ultraviolet radiation facility at nist", <u>Metrologia</u> , 1998, 35, 301-306.			
Kuschnerus, et al., "Characterization of photodiodes as transfer detector standards in the 120 nm to 600 nm spectral range", <u>Metrologia</u> , 1998, 35, pp. 355-362.			
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